CURRICULUM VITAE

Thomas Michael Egan, M.D., M.Sc., FRCS(C), FACS

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EDUCATION

Degrees: M.Sc., University of Toronto, 1984 (July 1982-June 1984)
M.D., University of Toronto, 1976 (September 1972-May 1976)

Postgraduate Training

July 1988-June 1989 Cardiopulmonary Transplant Fellow, Washington University, Barnes Hospital, St. Louis, Missouri
July 1986-June 1988 Senior Resident, Cardiovascular and Thoracic Surgery, University of Toronto
July 1985-June 1986 Senior Resident, General Surgery, University of Toronto
July 1984-June 1985 Resident, General Surgery, University of Toronto
July 1982-June 1984 Research Fellow, Division of Thoracic Surgery, Department of Surgery, University of Toronto
July 1980-June 1982 Resident, General Surgery, University of Toronto
July 1976-June 1977 Rotating Internship, York-Finch General Hospital, Toronto, Ontario, Canada
(NOTE: Served as Medical Officer/Flight Surgeon, Canadian Forces, June 1978-June 1980)

Research Fellowships

July 1984-June 1985 Ontario Heart Foundation Research Fellowship (declined)
July 1983-June 1984 Canadian Lung Association Research Fellowship

Additional Training (selected)

Scientific Writing from the Reader's Perspective, UNC, May 2010
SBIR/STTR Phase I Proposal Preparation, NC Small Business and Technology Development Center, June 2009.
NIH SBIR/STTR Proposal Writing Workshop, NC Small Business and Technology Development Center, June 2009.
Certificate of Entrepreneurship program, UNC Kenan-Flagler Business School and UNC School of Public Health, completed May 2009
Cyberknife Technical Training, Accuray, Sunnyvale CA, Sept. 29-30, 2008
Graduate Education in Technology Entrepreneurship & Commercialization, UNC representative to workshop at Georgia Tech, Atlanta, sponsored by Kauffman Foundation, May 2008 and April 2009.
Financial Literacy Workshop, UNC School of Public Health, March 2008
Writing from the Reader's Perspective, UNC, March 2006

EDUCATION (continued)

Licensure

North Carolina, 1989-present
Missouri, 1988-1989
New York, 1982-1989
Ontario, Canada 1977-1989

Certification

Diplomate, American Board of Thoracic Surgery, 1989
Recertified, 1999, 2009
F.R.C.S.(C), Cardiovascular and Thoracic Surgery, 1988
Diplomate, American Board of Surgery, 1987
F.R.C.S.(C), General Surgery, 1986
F.L.E.X., 1981
L.M.C.C., 1977

PROFESSIONAL EXPERIENCE

Research Navigator, UNC Translational Clinical Science (TraCS) Institute, January 2009-present
Founder and Chief Scientific Officer of X-In8 Biologicals Corp., July 2008-present
President, Lung Banks of America, a 501(c)3 corporation whose mission is to "recycle" human lungs from the recently deceased for transplant. April 2008-present
Professor of Surgery, University of North Carolina at Chapel Hill, August 1, 1998-present
Associate Program Director, Division of Cardiothoracic Surgery, University of North Carolina at Chapel Hill, January 1996-2012
Associate Professor of Surgery, University of North Carolina at Chapel Hill, July 1993-July 1998
Assistant Professor of Surgery, University of North Carolina at Chapel Hill, July 1989-June 1993
Instructor of Surgery, Washington University, St. Louis, Missouri, July 1988-June 1989
Medical Officer and Flight Surgeon, Canadian Forces Base Chatham, New Brunswick, Canada, July 1977-June 1980

HONORS AND AWARDS

2003-13 Listed in *Best Doctors in America* database, Best Doctors, Inc.
2006-07 Listed in *Guide to America's Top Surgeons*, Consumers' Research Council of America
2005-07 Listed in *America's Top Doctors for Cancer,* Castle Connolly Guide.
2000-07 Listed in *America's Top Doctors,* Castle Connolly Guide.
1998 Named to *Good Housekeeping* magazine's list of Top Doctors for Women (listed as one of "the country's most renowned experts for lung . . . disease")
1984 First Prize, Gallie Bateman Award for Surgical Research, University of Toronto
1984 Davis and Geck Award for Surgical Research, University of Toronto
1984 Canadian Critical Care Society Award for best poster presentation, Royal College meeting, Montreal, Quebec

HONORS AND AWARDS (continued)

1983	Second Prize, Gallie Bateman Award for Surgical Research, University of Toronto
1970-74	Gulf Oil Canada Ltd. Scholarship for Academic Excellence
1970	St. Michael's College, University of Toronto Entrance Scholarship

BIBLIOGRAPHY

BOOKS AND CHAPTERS

Egan TM. Lung donor allocation systems. IN: Vigneswaran W, Garrity E, eds., Lung Transplantation. New York: Informa Healthcare, 2010, pp. 105-114.

Egan TM, Edwards LB, Coke MA, Murray S, Bustami R, Shearon TH. Lung allocation in the United States. IN: Lynch JP III, Ross D, eds., Lung and Heart-Lung Transplantation (Lung Biology in Health and Disease series) New York: Marcel Dekker Inc. (Taylor & Francis), 2006, pp. 285-300.

Pierson RN, Barr ML, McCullough KP, Egan T, Garrity E, Jessup M., Murray S. Chapter VIII, Thoracic Organ Transplantation. IN: 2003 Annual Report of the U.S. Organ Procurement and Transplantation Network and The Scientific Registry of Transplant Recipients: Transplant Data 1993-2002. U.S. Department of Health and Human Services, Health Resources and Services Administration (HRSA), Rockville, MD, 2003.

Detterbeck FC, Egan TM. Surgery for stage II non-small cell lung cancer. IN: Detterbeck FC, Rivera MP, Socinski MA, Rosenman JG (eds). Diagnosis and Treatment of Lung Cancer: An Evidence-Based Guide for the Practicing Clinician. Philadelphia: W.B. Saunders, 2000, pp 191-197.

Paradowski LJ, Egan TM. Lung transplantation for cystic fibrosis. IN: Yankaskas JR, Knowles MR (eds). Cystic Fibrosis in Adults. Philadelphia: Lippincott-Raven, 1999, pp 195-219.

Yankaskas JR, Egan TM, Mauro M. Major pulmonary complications. IN: Yankaskas JR, Knowles MR (eds). Cystic Fibrosis in Adults. Philadelphia: Lippincott-Raven, 1999, pp 175-193.

Egan TM. Surgical options for lung transplantation in patients with cystic fibrosis. IN: Franco KL, Putnam JB Jr (eds). Advanced Therapy in Thoracic Surgery. Hamilton, Ontario: B.C. Decker Inc., 1998, pp 366-376.

Egan TM, Detterbeck FC. Technique of lung transplantation. IN: Kaiser LR, Kron IL, Spray TL (eds). Mastery of Cardiothoracic Surgery. Lippincott-Raven, 1998, pp. 167-177.

Egan TM. Thoracic surgery for patients with cystic fibrosis. IN: Orenstein DM, Stern RC (eds). Treatment of the Hospitalized Patient with Cystic Fibrosis. New York: Marcel Dekker, 1998, pp. 231-247.

Egan TM. Lung transplantation for cystic fibrosis. IN: Cooper DKC, Miller LW, Patterson GA (eds). The Transplantation and Replacement of Thoracic Organs, 2nd ed. Lancaster, U.K.: Kluwer Academic, 1997, pp. 565-571.

Egan TM. Lung size and impact on transplantation. IN: Cooper DKC, Miller LW, Patterson GA (eds). The Transplantation and Replacement of Thoracic Organs, 2nd ed. Lancaster, U.K.: Kluwer Academic, 1997, pp. 465-469.

Egan TM. Single lung transplantation. IN: Shumway SJ, Shumway NE (eds). Thoracic Transplantation. Cambridge, MA: Blackwell Science, 1995, pp 395-405.

Egan TM. Selection and management of the lung donor. IN: Patterson GA, Courand L (eds). Current Topics in General Thoracic Surgery: An International Series, Vol. 3 - Lung Transplantation. New York: Elsevier Science, 1995, pp 103-115.

Egan TM. Lung and heart-lung transplantation for cystic fibrosis. IN: Dodge JA, Brock DJH, Widdicombe JH (eds). Cystic Fibrosis: Current Topics, Vol. 2. Chichester: Sussex: John Wiley & Sons, 1994, pp 303-325.

Egan TM. Selection and management of the lung donor. IN: Kaye MP, O'Connell JB (eds). Heart and Lung Transplantation 2000. Austin: Landes, 1992, pp 25-30.

Egan TM, Cooper JD. The lung following transplantation. IN: Crystal RG, West JB (eds). Lung Injury. New York: Raven Press, 1991, pp 373-383.

Egan TM, Cooper JD. The lung following transplantation. IN: Crystal RG, West JB (eds). The Lung. Scientific Foundations, Vol. 2. New York: Raven Press, 1991, pp 2205-2215.

JOURNAL ARTICLES

PEER-REVIEWED ARTICLES

Tian Z, Dong B, Blackwell JW, Stewart PW, Egan TM. Effect of a vascular endothelial cadherin antagonist in a rat lung transplant model. Ann Thorac Surg 2013; 95(3):1028-33. PMID: 23333062

Dong B, Stewart PW, Egan TM. Post-mortem and ex-vivo carbon monoxide ventilation reduces injury in rat lungs transplanted from non-heart-beating donors. J Thorac Cardiovasc Surg 2013 Aug;146(2):429-436 (Epub Dec. 20, 2012). PMID: 23260460

Tesche LJ, Feins RH, Dedmon M, Newton K, Egan TM, Haithcock BE, Veeramachaneni NK, Bowdish M. Simulator experience enhances medical students' interest in cardiothoracic surgery. Ann Thorac Surg 2010 Dec; 90(6):1967-73. PMID: 21095347

Flume PA, Mogayzel PJ Jr., Robinson KA, Rosenblatt RL, Quittell L, Marshall BC; Clinical Practice Guidelines for Pulmonary Therapies Committee; Cystic Fibrosis Foundation Pulmonary Therapies Committee (Egan TM, collaborator). Cystic fibrosis pulmonary guidelines: pulmonary complications: hemoptysis and pneumothorax. Am J Respir Crit Care Med 2010; 182(3):298-306. PMID: 20675678

Evon DM, Burker EJ, Galanko JA, Dedert E, Egan TM. Depressive symptoms and mortality in lung transplant. Clin Transplant 2010; 24(5):E201-6. PMID: 20438580

Dong BM, Abano JB, Egan TM. Nitric oxide ventilation of rat lungs from non-heart-beating donors improves post-transplant function. Am J Transplant 2009; 9(12):2707-15. (Epub ahead of print, Oct. 21, 2009) PMID: 19845592

Casiraghi M, Tatreau JR, Abano JB, Blackwell JW, Watson L, Burridge K, Randell SH, Egan TM. In vitro modeling of non-hypoxic cold ischemia-reperfusion simulating lung transplantation. J Thorac Cardiovasc Surg 2009; 138(3):760-7. PMID: 19698867

Zanotti G, Casiraghi M, Abano JB, Tatreau JR, Sevala M, Berlin H, Smyth S, Funkhouser WK, Burridge K, Randell SH, Egan TM. Novel critical role of toll-like receptor 4 in lung ischemia-reperfusion injury and edema. Am J Physiol Lung Cell Mol Physiol 2009; 297(1):L52-63. PMID: 19376887

Inokawa H, Sevala M, Funkhouser WK, Egan TM. Ex-vivo perfusion and ventilation of rat lungs from non-heart-beating donors before transplant. Ann Thorac Surg 2006; 82(4):1219-25. PMID: 16996911

Takashima S, Koukoulis G, Inokawa H, Sevala M, Egan TM. Inhaled nitric oxide reduces ischemia-reperfusion injury in rat lungs from non-heart-beating donors. J Thorac Cardiovasc Surg 132(1):132-9, 2006. PMID: 16798313

Egan TM, Hoffmann SC, Sevala M, Sadoff JD, Schlidt SA. Nitroglycerin reduces ischemia-reperfusion injury in non-heart beating donor lungs. J Heart Lung Transplant 25:110-119, 2006. PMID:16399539

Egan TM. The new lung allocation system in the United States. Curr Opin Organ Transplant. 2006;11(5):490-5.

Egan TM, Haithcock JA, Nicotra WA, Koukoulis G, Inokawa H, Sevala M, Molina PL, Funkhouser WK, Mattice BJ. *Ex-vivo* evaluation of human lungs for transplant suitability. Ann Thorac Surg 81(4):1205-13, 2006. PMID:16564244

Orens JB, Estenne M, Arcasoy S, Conte JV, Corris P, Egan JJ, Egan T, Keshavjee S, Knoop C, Kotloff R, Martinez FJ, Nathan S, Palmer S, Patterson A, Singer L, Snell G, Studer S, Vachiery JL, Glanville AR; Pulmonary Scientific Council of the International Society for Heart and Lung Transplantation. International guidelines for the selection of lung transplant candidates: 2006 update--a consensus report from the Pulmonary Scientific Council of the International Society for Heart and Lung Transplantation. J Heart Lung Transplant. 25(7):745-55, 2006. PMID: 16818116

Egan TM, Murray S, Bustami R, Shearon TH, McCullough KP, Edwards LB, Coke MA, Garrity ER, Sweet SC, Heiney DA, Grover FL. Development of the new lung allocation system in the United States (The 2005 SRTR Report on the State of Transplantation). Amer J Transplant 6(5), Part 2:1212-27, 2006. PMID: 16613597

Wilkes DS, Egan TM, Reynolds HY. Lung transplantation: opportunities for research and clinical advancement. (NHLBI Workshop on Lung Transplantation). Am J Respir Crit Care Med 172:944-955, 2005. PMID: 16020804

Koukoulis G, Caldwell R, Inokawa H, Button B, Sevala M, Lyles JD, Takashima S, Blackwell JW, Egan TM. Trends in pH and pO2 after circulatory arrest: Implications for non-heart-beating donors and cell culture models of lung ischemia-reperfusion injury. J Heart Lung Transplant 24(12):2218-25, 2005. PMID: 16364874

Burker EJ, Evon DM, Sedway JA, Egan T. Religious and non-religious coping in lung transplant candidates: Does adding God to the picture tell us more? J Behav Med 28(6): 513-526, 2005. PMID: 16237611

Egan TM, Kotloff RM. Pro/Con debate: lung allocation should be based on medical urgency and transplant survival and not on waiting time. Chest 128(1):407-15, 2005. PMID: 16002964

Burker EJ, Evon DM, Galanko J, Egan T. Health locus of control predicts survival after lung transplant. J Health Psychology 10(5):695-704, 2005. PMID: 16033791

Takashima S, Schlidt SA, Koukoulis G, Egan TM. Isoproterenol reduces ischemia-reperfusion lung injury despite β-blockade. Journal of Surgical Research 126(1):114-20, 2005. PMID: 15916984

Evon DM, Burker EJ, Sedway JA, Cicale R, Davis K, Egan T. Tobacco and alcohol use in lung transplant candidates and recipients. Clin Transplant. 19(2):207-14, 2005. PMID: 15740556

Hemminger BM, Molina PL, Egan TM, Detterbeck FC, Muller KE, Coffey CS, Lee JKT. Assessment of realtime 3D visualization for cardiothoracic diagnostic evaluation and surgery planning. Journal of Digital Imaging. 18(2):145-53, 2005. PMID:15827827

Burker EJ, Evon D, Sedway J, Egan T. Religious coping, psychological distress and disability among patients with end-stage pulmonary disease. Journal of Clinical Psychology in Medical Settings 11(3):179-193, 2004

Burker EJ, Evon D, Sedway J, Egan T. Appraisal and coping as predictors of psychological distress and self-reported physical disability before lung transplantation. Progress in Transplantation 14:222-32, 2004.

Detterbeck FC, Egan TM. Thoracoscopy using a substernal handport for palpation. Ann Thorac Surg 78:1031-6, 2004.

Egan TM. Non-heart beating donors in thoracic transplantation. J Heart Lung Transplant 23:3-10, 2004.

Egan TM, Thomas Y, Gibson D, Funkhouser W, Ciriaco P, Kiser A, Sadoff J, Bleiweis M, Davis CE. Trigger for intercellular adhesion molecule-1 expression in rat lungs transplanted from non-heart-beating donors. Ann Thorac Surg. 77(3):1048-55, 2004.

Pierson RN 3rd, Barr ML, McCullough KP, Egan T, Garrity E, Jessup M, Murray S. SRTR Report on the State of Transplantation: Thoracic Organ Transplantation. Am J Transpl 4 Suppl 9:93-105, 2004.

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Paik HC, Hoffmann SC, Egan TM. Pulmonary preservation studies: Effects on endothelial function and pulmonary adenine nucleotides. Transplantation 75:439-444, 2003.

Kiser AC, Egan TM. Metastatic melanoma to the pleural space. Ann Thorac Surg 74;1257, 2002

Egan TM, Detterbeck FC, Mill MR, Bleiweis MA, Aris R, Paradowski L, Retsch-Bogart G, Mueller BS. Long term results of lung transplantation for cystic fibrosis. Eur J Cardiothorac Surg. 22:602-609, 2002.

Denlinger CE, Egan TM, Jones DR. Acquired Systemic-to-Pulmonary Arteriovenous Malformation Secondary to *M. Tuberculosis* Empyema. Ann Thorac Surg. 74(4):1229-31, 2002.

Hoffmann SC, Bleiweis MS, Jones DR, Paik HC, Ciriaco P, Egan TM. Maintenance of cAMP in non-heart beating donor lungs reduces ischemia-reperfusion injury. Am J Resp Crit Care Med 163:1642-1647, 2001.

Kiser AC, Ciriaco P, Hoffmann SC, Egan TM. Lung retrieval from non-heart beating cadavers with the use of a rat lung transplant model. J Thorac Cardiovasc Surg 122:18-23, 2001.

Teichman BJ, Burker EJ, Weiner M, Egan TM. Factors associated with adherence to treatment regimens after lung transplant. Progress Transplant 10:113-121, 2000.

Burker EJ, Carels RA, Thompson LF, Rodgers L, Egan T. Quality of life in patients awaiting lung transplant: cystic fibrosis versus other end stage lung diseases. Pediatr Pulmonol 30:453-460, 2000.

Bleiweis MS, Jones DR, Hoffmann SC, Becker RM, Egan TM. Reduced ischemia-reperfusion injury with rolipram in rat cadaver lung donors: effect of cyclic adenosine monophosphate? Ann Thorac Surg 67:194-200, 1999.

Jones DR, Parker LA Jr, Detterbeck FC, Egan TM. Inadequacy of computed tomography in assessing patients with esophageal cancer after induction chemoradiotherapy. Cancer 85:1026-1032, 1999.

Brouland J-P, Egan T, Roussi J, Bonneau M, Pignaud G, Bal C, Vaiman M, André P, Hervé P, Mazmanian GM, Drouet L. In vivo regulation of von Willebrand factor synthesis: von Willebrand factor production in endothelial cells after lung transplantation between normal pigs and von Willebrand factor-deficient pigs. Arterioscl Thromb Vasc Biol 19:3055-3062, 1999.

Egan TM, Detterbeck FC, Mill MR, Gott KK, Rea JB, McSweeney J, Aris RM, Paradowski LJ: Lung transplantation for cystic fibrosis: effective and durable therapy in a high-risk group. Ann Thorac Surg 66:337-346, 1998.

Yankaskas JR, Mallory GB Jr, and the Consensus Committee (Thomas M. Egan, member). Lung transplantation in cystic fibrosis: Consensus Conference Statement. Chest 113:217-226, 1998.

Egan TM (contributor). International guidelines for the selection of lung transplant candidates (Joint statement of the American Society for Transplant Physicians, American Thoracic Society, European Respiratory Society, and International Society for Heart and Lung Transplantation). Am J Respir Crit Care Med 158:335-339, 1998.

Jones DR, Hoffmann SC, Sellars M, Egan TM: Reduced ischemia-reperfusion injury with isoproterenol in non-heart beating donor lungs. J Surg Res 69:385-392, 1997.

Jones DR, Becker RM, Hoffmann SC, Lemasters JJ, Egan TM: When does the lung die?—Kfc, cell viability, and adenine nucleotide changes in the circulation-arrested rat lung. J Appl Physiol 83:247-252, 1997.

Jones DR, Detterbeck FC, Egan TM, Parker LA Jr, Bernard SA, Tepper JE: Induction chemoradiotherapy followed by esophagectomy in patients with carcinoma of the esophagus. Ann Thorac Surg 64:185-192, 1997.

D'Armini AM, Lemasters JJ, Egan TM, Viganó M: Effect of perfusion pH on rat lung viability of non-heart beating donors. Eur J Cardio-thorac Surg 12:787-791, 1997.

Roberts CS, Hennington MH, D'Armini AM, Griffith PK, Lemasters JJ, Egan TM. Donor lungs from ventilated cadavers: impact of a free radical scavenger. J Heart Lung Transplant 15:275-282, 1996.

Egan TM. Lung transplantation in cystic fibrosis. Sem Respir Crit Care Med 17:137-147, 1996.

Hennington MH, D'Armini AM, Lemasters JJ, Egan TM. Cadaver lungs for transplantation: effect of ventilation with alveolar gas. Transplantation 61:1009-1014, 1996.

D'Armini AM, Egan TM, Roberts CS, Lemasters JJ. Lung retrieval from cadaver donors with nonbeating hearts: optimal preservation solution. J Heart Lung Transplant 15:496-505, 1996.

Detterbeck FC, Scott W, Howard JF Jr, Egan TM, Keagy BA, Starek PJK, Wilcox BR. One hundred consecutive thymectomies for myasthenia gravis. Ann Thorac Surg 62:242-245, 1996.

Roberts CS, D'Armini AM, Egan, TM. Canine double lung transplantation using cadaver donors. J Thorac Cardiovasc Surg 112:577-583, 1996.

D'Armini AM, Lemasters JJ, Egan TM. Studies of rat lung viability and adenine nucleotide metabolism after death. Ann Thorac Surg 62:1448-1453, 1996.

Socinski MA, Detterbeck FC, Rivera MP, Egan TM, Halle J, Rosenman J. Chemotherapy helps patients with advanced non-small cell carcinoma of the lung. N C Med J 57:281-287, 1996.

Aris RM, Neuringer IP, Weiner MA, Egan TM, Ontjes D. Severe osteoporosis before and after lung transplantation. Chest 109:1176-1183, 1996.

Vaughn BV, Ali II, Olivier KN, Lackner RP, Messenheimer JA, Paradowski LJ, Egan TM. Seizures in lung transplant recipients. Epilepsia 37:1175-1179, 1996.

Hennington MH, Detterbeck FC, Kahai J, Szwerc MF, Jennette JC, Egan TM, Falk RJ. Wegener's granulomatosis mimicking a sternal abscess. South Med J 89:438-441, 1996.

Egan TM, Detterbeck FC, Mill MR, Paradowski LJ, Lackner RP, Ogden WD, Yankaskas JR, Westerman JH, Thompson JT, Weiner MA, Cairns EL, Wilcox BR. Improved results of lung transplantation for patients with cystic fibrosis. J Thorac Cardiovasc Surg 109:224-235, 1995.

Hemminger BM, Molina PL, Braeuning PM, Detterbeck FC, Egan TM, Pisano ED, Beard DV. Clinical applications of real-time volume rendering. Proceedings of Medical Imaging 1994: Image Display, SPIE Vol. 2431-07, 1995.

Egan TM, Thompson JT, Detterbeck FC, Lackner RP, Mill MR, Ogden WD, Aris RM, Paradowski LJ. Effect of size (mis)matching in clinical double lung transplantation. Transplantation 59:707-713, 1995.

Ciriaco P, Egan TM, Cairns EL, Thompson JT, Detterbeck FC, Ogden WD, Paradowski LJ. Analysis of cystic fibrosis referrals for lung transplantation. Chest 107:1323-1327, 1995.

Detterbeck FC, Mill MR, Egan TM. Lung transplantation after previous thoracic surgical procedures. Ann Thorac Surg 60:139-143, 1995.

D'Armini AM, Tom EJ, Roberts CS, Henke DC, Lemasters JJ, Egan TM. When does the lung die? Time course of high energy phosphate depletion and relationship to lung viability after "death." J Surg Res 59:468-474, 1995.

Flume PA, Egan TM, Westerman JH, Paradowski LJ, Yankaskas JR, Detterbeck FC, Mill MR. Lung transplantation for mechanically ventilated patients. J Heart Lung Transplant 13:15-21, 1994.

Flume PA, Egan TM, Paradowski LJ, Detterbeck FC, Thompson JT, Yankaskas JR. Infectious complications of lung transplantation: impact of cystic fibrosis. Am J Respir Crit Care Med 149:1601-1607, 1994.

D'Armini AM, Roberts CS, Griffith PK, Lemasters JJ, Egan TM. When does the lung die? I. Histochemical evidence of pulmonary viability after "death." J Heart Lung Transplant 13:741-747, 1994.

Alessandrini F, D'Armini AM, Roberts CS, Reddick RL, Egan TM. When does the lung die? II. Ultrastructural evidence of pulmonary viability after "death." J Heart Lung Transplant 13:748-757, 1994.

Steinbach S, Sun L, Jiang R-Z, Flume P, Gilligan P, Egan TM, Goldstein R. Transmissibility of Pseudomonas cepacia infection in clinic patients and lung-transplant recipients with cystic fibrosis. New Engl J Med 331:981-987, 1994.

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Cooper JD, Billingham M, Egan T, et al. A working formulation for the standardization of nomenclature and for clinical staging of chronic dysfunction in lung allografts. J Heart Lung Transplant 12:713-716, 1993.

Lethem MI, Dowell ML, Van Scott M, Yankaskas JR, Egan T, Boucher RC, Davis CW. Nucleotide regulation of goblet cells in human airway epithelial explants: normal exocytosis in cystic fibrosis. Am J Respir Cell Mol Biol 9:315-322, 1993.

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Ulicny KS Jr, Egan TM, Lambert CJ Jr, Reddick RL, Wilcox BR. Cadaver lung donors: effect of preharvest ventilation on graft function. Ann Thorac Surg 55:1185-1191, 1993.

Egan TM, Ulicny KS Jr, Lambert CJ Jr, Wilcox BR. Effect of a free radical scavenger on cadaveric lung transplantation. Ann Thorac Surg 55:1453-1459, 1993.

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Goldstein RA, Bolman RM III, Cooper JD, Egan TM, et al. Lung transplantation: report of the ATS Workshop on Lung Transplantation. Am Rev Respir Dis 147:772-776, 1993.

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Egan TM, Boychuk J, Rosato C, Cooper JD. Whence the lungs? A study to assess suitability of donor lungs for transplantation. Transplantation 53:420-422, 1992.

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Egan TM. Lung preservation. Seminars Thorac Cardiovasc Surg 4:83-89, 1992.

Egan TM, Westerman J, Mill MR, Wilcox BR. Lung transplantation at UNC: the first year. NC Med J 52:325-329, 1991.

Egan TM, Trulock E, Boychuk J, Ochoa L, Cooper JD. Analysis of patient referrals for lung transplantation. Chest 99:867-870, 1991.

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Egan TM, Maitland A, Sinave C, Pollick C, David TE. Myocardial abscess in a patient with AIDS-related complex: pericardial patch repair. Ann Thorac Surg 49:481-482, 1990.

Egan TM, Cooper JD. Surgical aspects of single lung transplantation. Clin Chest Med 11:195-205, 1990.

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Egan TM, Saunders NR, Luk SC, Cooper JD. Complement-mediated pulmonary edema in sheep. J Surg Res 45:204-214, 1988.

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Egan T, Dong B, Tikunov A, Semelka C, Kuan P-F, Macdonald J. Metabolomic profile of rat lung tissue after death: Effect of delayed post-mortem O2-ventilation. J Heart Lung Trans 2013: 32(4):S296-297.

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Lambert CJ Jr, Egan TM, Keagy BA, Wilcox BR. Lung preservation with dimethylthiourea (DMTU). To flush or infuse? That is the question. Chest 98:11S, 1990.

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Egan TM, Saunders NR, Cooper JD. Inhibition of complement mediated hypoxemia by Captopril in sheep. Clin Invest Med (Suppl) 7:81, 1984.

Phillipson EA, Egan TM, Saunders NR, Duffin J, Cooper JD. Differential inspiratory and expiratory muscle activation by peripheral and central chemoreceptor stimulation. Clin Invest Med (Suppl) 7:85, 1984.

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TEACHING RECORD

Lectures

Integration Selective Seminars MS IV "Practical Pulmonary Physiology and the Future of Lung Transplant" - 3 lectures per year.

Participate in MSI anatomy labs – most recent: Thorax modules 1, 2 and 3. Oct. 30, 31 and Nov. 1, 2012.

Surgical skills lab (Dr. Adamson) for Surgery interns, 9/24/2009

Grand Rounds: See Presentations

Continuing Education lectures: See Presentations

Other Teaching

Organized Advanced Practice Selective Course on Multidisciplinary Oncology for MS IV students. 2010-present.

Presentation for grad students in Clinical Mentoring for New Innovations Course, Department of Biomedical Engineering, UNC School of Medicine, Aug. 23, 2011.

Mentored Patrick McNeillie (MS IV) – Cardiothoracic lab selective, March 2010

Weekly meetings with MS III students rotating on Cardiac Surgery and Thoracic Surgery service to discuss cardiac and pulmonary physiology (2009-present)

Mentorship in the CT Surgery laboratory

UNC Undergraduate Students

	Year	Duration	Time
Melanie Sellers	Sophomore	summer	1999
John Blackwell	Freshman-Senior	summer and part time	2004-2007

UNC Medical Students

	Year	Duration	Time
Andy Kiser	MSII	summer	1990
Yalaunda Thomas	MSIII	1 year	1997-98
Debra Gibson	MSII	summer	1998
Lindsee McPhail	MSII	summer	2000
Johnnie Liles	MSII	summer	2002
Larry Watson	MSII	summer	2004
Sulemon Chaudhry	MSII	summer	2007
Nancy Wang	MSII	summer	2010
Justin Miller	MSII	summer	2010
Edward Jernigan	MSIV	1 year	2010-2011

UNC Cardiothoracic Surgery Fellows

	Duration	Time
Jake Lambert	1 year	1989-90
Karl Ulicny	1 year	1990-91
Mark Hennington	1 year	1991-92
Patrick Griffith	1 year	1992-93
Kent Brusset	1 year	1993-94
Charles Roberts	1 year	1994-95
David Jones	1 year	1995-96
Andy Kiser	1 year	1996-97
John Sadoff	1 year	1997-98
Mark Bleiweis	1 year	1998-99
David Dean	1 year	1999-00
Adil Husain	1 year	2000-01
Scott Schlidt	1 year	2001-02
Masharn Doanes	1 year	2002-03

UNC Postdoctoral Associates

Boming Dong MD, PhD	2006-2010
Zhigang Tian MD	2010
Lolita Forrest, PhD	2012-present

International Lab Fellows

	Institution, place	Institutional role	Duration	Time
Andrea D'Armini	University of Pavia, Italy	cardiac surgery fellow	2.5 years	1993-1995
Francesca Allesandrini	University of Modena, Italy	PhD student	4 months	1993
Paola Ciriaco	University of Milan, Italy	thoracic surgery fellow	2 years	1997-1999
Hyo Chae Paik	Yonsei University, Seoul Korea	thoracic surgery fellow	2 years	1997-1999
Seiki Takashima	University of Okayama, Japan	thoracic surgery fellow	2 years	2001-2003
Giovanna Koukoulis	University of Pavia, Italy	cardiac surgery fellow	2 years	2001-2003
Hidetoshi Inokawa	University of Okayama, Japan	thoracic surgery fellow	2 years	2003-2005
Giorgio Zanotti	University of Pavia, Italy	cardiac surgery fellow	2 years	2004-2006
Monica Casiraghi	University of Milan, Italy	thoracic surgery fellow	1.5 years	2005-2007

Clinical Observers

	Institution, place	Institutional role	Duration	Time
Robert Love	University of Wisconsin	thoracic surgeon	1 month	1991
Ricardo Navarro	Cordoba Argentina	thoracic surgeon	2 weeks	1991
Folke Nillson	University of Gotheborg, Sweden	thoracic surgeon	2 weeks	1993
Paola Ciriaco	University of Rome, Italy	thoracic surgery fellow	6 months	1993
Phillipe Herve	Marie Lannelongue Hospital, Paris	pulmonologist	2 weeks	1994
Federico Venuta	University of Rome, Italy	thoracic surgeon	6 weeks	1996
Giovanni Magnanelli	University of Verona, Italy	thoracic surgeon	6 months	1998, 1999
Andrea Zuin	University of Padua, Italy	thoracic surgeon	6 months	1997
Mariano Boglione	Buenos Aires, Argentina	thoracic surgeon	1 month	2000
Helmut Grimm	University of Giessen	pediatric surgeon	2 weeks	2001

Clinical Teaching:

Cardiothoracic Surgery Divisional CME Coordinator
Cardiothoracic Surgery teaching conference (weekly meetings)
Cardiothoracic Surgery Journal Club (monthly meetings)
Cardiothoracic Surgery Morbidity and Mortality Rounds (monthly meetings)
Cardiothoracic Surgery "Tricks of the Trade" teaching conference (monthly meetings)
Cardiothoracic Surgery Topics (monthly meetings)

PRESENTATIONS

International

Metabolomic profile of rat lung tissue after death: Effect of delayed post-mortem O2-ventilation. International Society for Heart and Lung Transplantation, Montréal, Canada, April 26, 2013.

Effect of ex-vivo lung perfusion (EVLP) on metabolomics profile of human lungs. International Society for Heart and Lung Transplantation, Montréal, Canada, April 25, 2013.

New Frontiers: Non-Heart-Beating Lung Donor. Invited Speaker at a Lung Transplant Symposium held in honor of retiring Professor Mario Vigano, University of Pavia, Pavia, Italy, Oct 15, 2011.

Ex-vivo Lung Perfusion (EVLP): The Future of Lung Transplantation? Invited Speaker, Department of Cardiac Surgery, San Matteo Hospital, University of Pavia, Pavia, Italy, Oct 14, 2011.

Impact of the lung allocation score (LAS) on lung transplant in the U.S. International Society of Heart and Lung Transplantation, San Diego, California, April 14, 2011.

Lessons from a Preclinical Model of Ex-vivo Lung Reperfusion. Invited Lecture. 9th International Congress on Lung Transplantation, Paris, France, September 16, 2010.

Who Receives a Lung Transplant in the United States? Invited Lecture. 9th International Congress on Lung Transplantation, Paris, France, September 16, 2010.

Ischemia-Reperfusion Lung Injury and Ex-vivo Lung Perfusion: the Future of Lung Transplantation. Invited Lecture, Richshospitalet, Oslo, Norway, Sept. 14, 2010.

The New U.S. Lung Allocation System: Development and Results. Invited speaker. Eurotransplant annual meeting. Leiden, Netherlands. Oct. 10, 2008.

The New U.S. Lung Allocation System: Scientific and Ethical Issues. Invited speaker. Eurotransplant annual meeting. Leiden, Netherlands. Oct. 9, 2008.

The Future of Lung Transplantation: Non-Heart-Beating Donors. Invited lecture. University of Leuven Department of Thoracic Surgery. Leuven, Belgium. Oct. 7, 2008.

The new U.S. lung allocation system : Benefits and pitfalls. Invited speaker. 8th International Congress on Lung Transplantation, Paris, France. Sept. 11, 2008.

Ex-vivo perfusion of lungs from non-heart-beating donors : Practical obstacles and opportunities. Invited speaker. 8th International Congress on Lung Transplantation. Paris, France. Sept. 11, 2008.

Non-Heart-Beating Donors - The Future of Lung Transplantation. Invited lecture. Hôpital Foch, Paris, France. Sept. 10, 2008.

Non-Heart-Beating Donors - The Future of Lung Transplantation. Invited lecture. Hôpital Marie Lannelongue, Paris, France. Sept. 9, 2008.

Lung Transplantation: State of the Art. Invited Speaker. San Raffaele University Hospital, Milan, Italy, October 16, 2007.

Ischemia-Reperfusion Injury: Effect on Short and Long Term Graft Function. Invited Speaker. Recent Insights and New Perspectives in Lung Transplantation. University of Pavia, Italy, October 12, 2007.

Lung Transplantation 2007: State of the Art. Invited Speaker. 37th Annual Meeting of the Korean Society for Transplantation. Seoul, South Korea, October 5, 2007.

Resolved: That Lung Retransplant Should Not Be Performed (Con). Invited Speaker, International Society for Heart and Lung Transplantation Debate, San Francisco CA, April 27, 2007.

Experimental Rationale for the Use of Non-Heart-Beating Donors in Lung Transplantation. Invited presentation, Symposium on Non-Heart-Beating Donors in Lung Transplantation, International Society for Heart and Lung Transplantation Annual Meeting and Scientific Sessions, Madrid Spain, April 5, 2006.

A Summary of the NHLBI Workshop on Lung Transplantation: Opportunities for Research and Clinical Advancement. Third International Conference on Recent Insights and New Perspectives in Lung Transplantation. Pavia, Italy, Oct. 6-8, 2005.

Ex-vivo evaluation of human lungs for transplant suitability. Third International Conference on Recent Insights and New Perspectives in Lung Transplantation. Pavia, Italy, Oct. 6-8, 2005.

Gene expression changes associated with ischemia-reperfusion injury following rat lung transplantation. (Poster) International Society for Heart and Lung Transplantation, Philadelphia, PA, April 2005

Lung allocation/distribution: The U.S. model. 6th International Congress on Lung Transplantation. Paris, France, September 17, 2004.

Ischemia-reperfusion in non-heart beating donors. 6th International Congress on Lung Transplantation. Paris, France, September 17, 2004.

Advantages of the proposed lung allocation system (part of a session on Altering the Lung Transplant Allocation System: The Proposed UNOS Change). International Society for Heart and Lung Transplantation. San Francisco, California, April 24, 2004.

Using gene arrays to understand lung reperfusion injury. Second International Congress on Recent Insights and New Perspectives in Lung Transplantation. Pavia, Italy, Oct. 10, 2003.

Risk factors for death after lung transplant in the U.S. International Society for Heart and Lung Transplantation. Vienna, Austria, April 2003.

Predictors of death on the UNOS lung transplant waiting list. International Society for Heart and Lung Transplantation. Vienna, Austria, April 2003.

UNOS: To a new system of allocation of thoracic organs. 5th International Congress on Lung Transplantation, Paris, France, September 2002.

B. Cepacia and lung transplantation: The University of North Carolina experience. 5th International Congress on Lung Transplantation, Paris, France, September 2002.

The non-heart beating donor: A solution to the lung donor shortage? Cardiothoracic Surgery Rounds, University of Lund, Sweden, September 2002.

Are there predictors of death at the time of listing for lung transplant? International Society for Heart and Lung Transplant, Washington, DC, April 2002.

Non-Heart Beating Lung Donors: Experimental Evidence. Sunrise Symposium, International Society for Heart and Lung Transplant, Washington, DC, April 2002.

Cystic Fibrosis: Is Lung Transplantation the Only Therapeutic Option? Recent Insights and New Perspectives in Lung Transplantation. Milan, Italy, October 2001.

Non-Heart Beating Lung Donors. Recent Insights and New Perspectives in Lung Transplantation. Milan, Italy, October 2001.

Long Term Results of Lung Transplantation for Cystic Fibrosis. European Association for Cardiothoracic Surgery/European Society for Thoracic Surgery. Lisbon, Portugal, September 2001.

Predictors of death on the UNOS lung transplant waiting list: results of a multivariate analysis. International Society for Heart and Lung Transplantation, Vancouver BC, Canada, April 2001.

Lung Allocation: Medical urgency, not time on the list. Invited Speaker, ISHLT Debate. International Society for Heart and Lung Transplantation, Vancouver BC, Canada, April 2001.

Indications and technique of the single and double lung transplant. Italian Society for Thoracic Surgery, Verona, Italy, November 2000.

Moderator: Volume reduction surgery for emphysema and lung transplant. Italian Society for Thoracic Surgery, Verona, Italy, November 2000.

Non-heart beating donors in lung transplantation. University of Pavia, Pavia, Italy, November 2000.

Non-heart beating donors. 4th International Congress on Lung Transplantation, Paris, France, September 2000.

International comparisons: the UNOS model. 4th International Congress on Lung Transplantation, Paris, France, September 2000.

Current status of lung transplantation for cystic fibrosis. International Cystic Fibrosis Congress, Stockholm, Sweden, June 2000.

CF lung transplantation: before and after. International Cystic Fibrosis Congress, Stockholm, Sweden, June 2000.

Lung transplantation for cystic fibrosis. Rikshospitalet, Oslo, Norway, June 2000.

Non-heart beating lung donors. Rikshospitalet, Oslo, Norway, June 2000.

Thoracic organ distribution should not be prioritized for local utilization first. International Society for Heart and Lung Transplantation, San Francisco, California, April 1999.

Lung volume reduction surgery and lung transplantation in COPD. International Workshop on Chronic Obstructive Pulmonary Diseases, Padova, Italy, January 1999.

Lung transplantation for infectious disease. Lung Transplantation Symposium, Okayama, Japan, December 1998.

Cadavers as lung donors: experience with experimental models. Japanese Society for Transplantation, Tokyo, Japan, November 1998.

Lung transplantation in cystic fibrosis. IX International Symposium of Pneumonology, Seville, Spain, November 1997.

Present treatment of cystic fibrosis: new perspectives. IX International Symposium of Pneumonology, Seville, Spain, November 1997.

The role of non-perfused lungs: the cadaver as a lung donor. 7th World Congress of Intensive & Critical Care Medicine, Ottawa, Canada, June 1997.

Lung transplantation for cystic fibrosis. 5th National Congress on Cystic Fibrosis, Palermo, Italy, April 1997.

Lung transplantation for cystic fibrosis: results and strategies to address the donor shortage. 10th National Congress of the Italian Polyspecialty Society of Surgery, Isle of Capris, Italy, April 1997.

Multimodality therapy (preoperative chemo- and radiotherapy followed by surgery) improves outcome for patients with esophageal carcinoma. 10th National Congress of the Italian Polyspecialty Society of Surgery, Isle of Capris, Italy, April 1997.

Lung transplantation for cystic fibrosis: results and strategies to address the donor shortage. University of Rome, Rome, Italy, April 1997.

The use of cadaver lungs for transplant. Ospedale San Raffaele, Milan, Italy, November 1995.

Lung transplantation: state of the art 1995. Policlinico San Matteo, University of Pavia, Pavia, Italy, November 1995.

Lung transplantation for cystic fibrosis. Policlinico San Matteo, University of Pavia, Pavia, Italy, November 1995.

Lung transplantation in cystic fibrosis: state of the art. Scandinavian Workshop on Heart-Lung and Lung Transplantation in Cystic Fibrosis. Göteborg, Sweden, November 1994.

Lung transplantation: state of the art. Hjärt Lung Omradet, Göteborg, Sweden, November 1994.

L'innovation a la preservation de poumons. Hôpital Marie Lannelongue, Paris, France, November 1993.

Quand est le poumon mort? Hôpital Marie Lannelongue, Paris, France, May 1993.

La greffe poumon pour la mucoviscidose . . . la greffe superieure. Hopital Marie Lannelongue, Paris, France, September 1992.

Isolated lung transplantation for end stage cystic fibrosis: procedure of choice. 11th International Cystic Fibrosis Congress, Dublin, Ireland, August 1992.

Lung transplantation in cystic fibrosis: indications and surgical technique. International Conference on Thoracic Organ Transplantation, University of Pavia, Italy, June 1992.

La greffe poumon clinique 1992: qu'est-ce que c'est que la limite? Centre Chirurgical Marie-Lannelongue, Paris, France, April 1992.

Cadaver lungs in experimental transplantation: a new approach to increase the pulmonary donor pool. Second International Lung Transplant Seminar, Zurich, Switzerland, June 1991.

National (Canada):

A randomized controlled trial to determine the effectiveness of fascial infiltration of bupivicaine in preventing atelectasis following abdominal surgery. Canadian Association of General Surgeons, Ottawa, Ontario, September 1988.

A randomized controlled trial to determine the effectiveness of fascial infiltration of bupivicaine in preventing atelectasis following abdominal surgery. Annual Assembly of General Surgeons, University of Toronto, June 1988.

Inhibition of complement mediated hypoxemia by Captopril in sheep. Canadian Society for Clinical Investigation, Montreal, Quebec, September 1984.

Contribution of formed elements to thromboxane generation when activated complement is infused in sheep. Royal College of Physicians and Surgeons of Canada, Montreal, Quebec, September 1984.

Effect of granulocyte depletion on infusion of activated complement in sheep. Royal College of Physicians and Surgeons of Canada, Montreal, Quebec, September 1984.

The role of granulocytes in complement mediated pulmonary dysfunction in sheep. Annual Assembly of General Surgeons, University of Toronto, May 1984.

National (U.S.):

Ex-vivo lung perfusion (EVLP): Current status and future directions. Webinar. National Association of Transplant Coordinators (NATCO). Oct. 10, 2012.

National lung organ donor sharing. Invited Speaker. Society of Thoracic Surgeons, Fort Lauderdale FL. Jan 31, 2012.

Ex-vivo lung perfusion (EVLP) of human Lungs - a pre-clinical study to assess transplant suitability. Poster presentation. American College of Chest Physicians, Honolulu, Oct. 26, 2011.

Ex-vivo organ perfusion: The future of organ transplantation. Invited Speaker. Society for Transplant Social Workers, Tampa, Fla., Oct 6, 2011.

Impact of lung allocation score on lung transplant in the U.S. Invited Speaker. Society for Transplant Social Workers, Tampa, Fla., Oct 5, 2011.

Ex-vivo lung perfusion: current status and a glimpse into the future. Invited Speaker. Society for Transplant Social Workers, Tampa, Fla., Oct 5, 2011.

Thoracic surgery: What is it and where are we headed? (Forum on "What's your specialty?") National Youth Leadership Forum/Medicine (national program for high school students), University of North Carolina, Chapel Hill, NC. June 23, 2011.

Nitric oxide (NO) ventilation of rat lungs before and after retrieval from non-heart-beating donors (NHBDs) reduces vascular resistance (PVR) and ischemia-reperfusion injury (IRI) after transplant (tx) (moderated poster) American Thoracic Society Toronto, Canada. May 19, 2008.

Lung re-transplantation: utility or futility? American Society of Transplant Surgeons, Winter Symposium, Scottsdale, AZ. Jan. 22, 2006.

Ex-vivo evaluation of human lungs for transplant suitability. Southern Thoracic Surgical Association. Orlando, FL, November 2005.

Utilization of "Donation After Cardiac Death" Donors for Lung Transplantation. North American Transplant Coordinators Organization (NATCO), Atlanta, GA, Aug 1, 2005.

Non-heart beating donors in lung transplantation: rationale and methods of ex-vivo assessment. UNOS DCD Conference, Chicago, IL, May 12, 2005.

Lessons learned from the new lung allocation system (invited speaker). OPTN/UNOS Retreat on Kidney Allocation. Chicago, IL, September 23, 2004.

Donor supply issues in lung transplantation. NHLBI Lung Transplant Workshop: New Science and Clinical Advances. Bethesda, MD, June 2004.

Using gene arrays to understand lung ischemia reperfusion injury. NHLBI Lung Transplant Workshop: New Science and Clinical Advances. Bethesda, MD, June 2004.

Effect of combined cAMP and cGMP augmentation on IRI in lungs from non-heart-beating donors: Synergy or competition? The American College of Chest Physicians. Orlando, FL, Oct. 29, 2003.

Proposed United Network for Organ Sharing (UNOS) allocation policy for lung donors. Transplant/Immunology Network, American College of Chest Physicians. Orlando, FL, Oct. 29, 2003.

Historical progression of the proposed allocation system. OPTN/UNOS Conference on Lung Allocation Policy, Chicago, Illinois. March 2003.

Intercellular adhesion molecule-1 expression in rat lungs transplanted from non-heart beating donors. The Society of Thoracic Surgeons, San Diego, California, January 2003.

Reperfusion with nitroglycerine reduces ischemia-reperfusion injury in non-heart beating donor lungs (Poster) American Thoracic Society, Atlanta GA, May 2002.

Non-Heart Beating Donors in Thoracic Transplantation: Current Status and Future Trends. American Society of Transplantation Winter Symposium, Fort Lauderdale, FL, January 2002.

Should lung transplantation be performed for COPD patients? Invited Speaker. American Thoracic Society, San Francisco CA, May 2001.

Emphysematous patients should not be transplanted. Meet the Experts Session. Society of Thoracic Surgeons, New Orleans LA, Jan. 2001.

Lung transplant is not an appropriate option in COPD. American College of Chest Physicians, San Francisco, California, October 2000.

Lung transplantation: Selection, techniques, results, and obstacles. North American Trauma Association, Park City, Utah, March 2000.

Lung transplantation for CF: long term results and directions for improvement. Poster presentation, 13th Annual North American Cystic Fibrosis Conference, Seattle, Washington, October 1999.

Re-do double lung transplant for CF patients who acquire bronchiolitis obliterans syndrome: a single institution experience. Poster presentation, 13th Annual North American Cystic Fibrosis Conference, Seattle, Washington, October 1999.

ICAM-1 adhesion molecule upregulation after lung transplantation from non-heart-beating donors. Poster presentation, AATS Biology Club, American Association for Thoracic Surgery, New Orleans, Louisiana, April 1999.

Maintenance of cAMP improves lung endothelial integrity in cadaveric rat lungs. American College of Chest Physicians, Toronto, Canada, November 1998.

Bilateral lobe transplant: how often is this a realistic option in CF patients?" 12th Annual North American Cystic Fibrosis Conference, Montreal, Canada, October 1998.

Lung transplantation for cystic fibrosis: effective and durable therapy in a high-risk group. Southern Thoracic Surgical Association, Naples, Florida, November 1997.

LVRS on trial: should there be a randomized trial? Meet the Experts Session, The Society of Thoracic Surgeons, San Diego, California, February 1997.

Lung donor availability: a perspective on the problem and potential solution. Cystic Fibrosis Consensus Conference, Washington, D.C., May 1996.

Alternative donors: non-heart beating and non-human. Cystic Fibrosis Consensus Conference, Washington, D.C., May 1996.

Current issues in lung procurement and transplantation. 12th Annual Conference in Education: Issues in Transplantation and Organ Procurement, Nashville, Tennessee, April 1996.

Intermediate-term results of lung transplant for CF. 9th Annual North American Cystic Fibrosis Conference, Dallas, Texas, October 1995.

Innovative donor strategies. Lung Transplantation Symposium, American College of Chest Physicians, New York, New York, October 1995.

Effect of size (mis)matching in clinical double lung transplantation. American Society of Transplant Surgeons, Chicago, Illinois, May 1994.

Improved results of lung transplantation for end stage cystic fibrosis. American Association for Thoracic Surgery, New York, NY, April 1994.

Surgical issues in lung transplantation for cystic fibrosis. Seventh Annual North American Cystic Fibrosis Conference, Dallas, Texas, October 1993.

Innovation in pulmonary preservation. Symposium: Update on Lung Transplantation. American College of Chest Physicians, Orlando, Florida, October 1993.

Bronchoscopy in donor evaluation. Organ Procurement Organizations/Lung Transplant Surgeons Symposium: Overcoming the Barriers to Lung Donation, Chicago, Illinois, April 1993.

Lung transplantation: state of the art. First International Symposium on Organ Transplantation, Cordoba, Argentina, December 1992.

Immunosuppression in lung transplantation: actual results. First International Symposium on Organ Transplantation, Cordoba, Argentina, December 1992.

Cold ischemia and functional recovery of lungs. First International Symposium on Organ Transplantation, Cordoba, Argentina, December 1992.

Overview of lung transplantation for cystic fibrosis. Sixth Annual North American Cystic Fibrosis Conference, Washington, D.C., October 1992.

Treatment of pneumothorax in the context of lung transplantation. Sixth Annual North American Cystic Fibrosis Conference, Washington, D.C., October 1992.

Is bronchial omentopexy helpful in human lung transplantation? American College of Chest Physicians, Chicago, Illinois, October 1992.

Current controversies in transplantation. Association of Organ Procurement Organizations, Lake Tahoe, Nevada, February 1992.

Successful lung transplantation for ventilator-dependent respiratory failure. American College of Chest Physicians, San Francisco, California, November 1991.

Isolated lung transplantation for end stage lung disease: a viable therapy. Southern Thoracic Surgical Association, Orlando, Florida, November 1991.

Double lung transplantation for end stage CF: a viable therapy. Fifth Annual North American Cystic Fibrosis Conference, Dallas, Texas, October 1991.

History of lung preservation. NIH Workshop on Biology of Lung Preservation for Transplantation, Bethesda, Maryland, June 1991.

Suitability of cardiac donors for lung donation. American Society of Transplant Surgeons, Chicago, Illinois, May 1991.

A strategy to increase the pulmonary donor pool: the use of cadaver lungs for transplantation. Society of Thoracic Surgeons, San Francisco, California, February 1991.

Analysis of patient referrals for lung transplantation. American College of Chest Physicians, Boston, October 1989.

An unusual case of endocarditis: primary ventricular septal abscess. Society of Thoracic Surgeons, Toronto, Ontario, September 1987.

Contribution of circulating formed elements to prostanoid production in complement mediated lung injury in sheep. Surgical Forum, American College of Surgeons, San Francisco, California, October 1984.

Captopril inhibits complement mediated hypoxemia in sheep. Federation of American Societies of Experimental Biology, St. Louis, Missouri, April 1984.

Granulocytes mediate hypoxemia in sheep infused with activated complement. American Physiologic Society, Honolulu, Hawaii, August 1983.

Successful extracorporeal membrane oxygenation for twenty-four days in a patient who underwent two lung transplants for paraquat poisoning: a case report. American Academy of Cardiovascular Perfusion, San Diego, California, January 1983.

Regional – N.C.

Normothermic ex vivo lung perfusion for donor lung assessment and repair. Womack Society June 16, 2011.

Ex-vivo Perfusion and Ventilation of Lungs to Assess Transplant Suitability. Carolina Donor Services, Durham, NC. March 31, 2011.

The future of lung transplantation: Non-heart-beating donors. Invited lecture. Duke University Multi-Organ Transplant Conference, Durham, NC, Oct. 14, 2008.

Is There Life After Death? Recycling Human Lungs from Cadavers for Transplant. Invited Speaker. North Carolina Society for Respiratory Care Annual Meeting, Wilmington NC, Sept. 26, 2007.

Lung-in-a-box. North Carolina Society for Respiratory Care, Cary, NC, September 8, 2005.

History and Practice of Lung Transplant: A Pioneer's Perspective. UNC Mini-Medical School Lecture Series. UNC Chapel Hill, April 2002.

Non-heart beating lung donors and lung preservation. Second Wind (a lung transplant organization), Durham, North Carolina, September 2000.

Surgical options in the treatment of end-stage chronic obstructive pulmonary disease. North Carolina Surgical Association, Pinehurst, North Carolina, April 1996.

Living related donors for lung transplantation. Meeting of the Transplant Coordinators of North Carolina, Chapel Hill, North Carolina, September 1995.

Commentator on: A Shot in the Dark: Challenging/Defending Claims Based upon 'Experimental' Drug Procedures. North Carolina Bar Foundation, Research Triangle Park, North Carolina, April 1993.

Advances in lung transplantation. Triangle Chapter, American Association of Critical Care Nurses, Durham, North Carolina, November 1992.

Lung transplantation 1992: state of the art. Fourth Annual Mountain Air Conference, Asheville, North Carolina, October 1992.

Advances in lung transplantation. American College of Surgeons (N.C. Chapter), Asheville, North Carolina, July 1991.

Clinical lung transplantation 1991. 41st Annual Institute on Tuberculosis and Other Respiratory Diseases. Black Mountain, North Carolina, July 1991.

Heart and lung transplantation at UNC. Southern Society of Clinical Surgeons, Chapel Hill, North Carolina, April 1991.

Regional – Outside N.C. :

The new UNOS lung allocation system. Cleveland Clinic Foundation Lung Transplantation Annual Retreat. Cleveland, OH, Dec. 7, 2005.

Current concepts in heart and lung preservation. Southeastern Organ Procurement Foundation, San Antonio, Texas, September 1997.

Critical care management of potential organ donors. 20th Annual Symposium on Lung Disease. Southern Medical Association, Sea Island, Georgia, June 1996.

Lung cancer: new trends in surgical management and adjunctive therapy. 20th Annual Symposium on Lung Disease. Southern Medical Association, Sea Island, Georgia, June 1996.

Lung transplantation 1995. 19th Symposium on Lung Disease, Southern Medical Association, Sea Island, Georgia, June 1995.

Volume reduction surgery in emphysema: a surgical perspective. 19th Symposium on Lung Disease, Southern Medical Association, Sea Island, Georgia, June 1995.

Lung transplantation. American College of Surgeons (North Carolina Chapter), North Myrtle Beach, South Carolina, July 1994.

Lung cancer: the pulmonologist and the thoracic surgeon. 18th Symposium on Lung Disease, Southern Medical Association, Sea Island, Georgia, June 1994.

Hemoptysis: the role of the thoracic surgeon. 18th Symposium on Lung Disease, Southern Medical Association, Sea Island, Georgia, June 1994.

The role of lung transplantation in cystic fibrosis. Rochester Cystic Fibrosis Chapter, Rochester, New York, April 1994.

Pediatric lung transplantation. Tri-annual Meeting of the South-Eastern Organ Procurement Foundation, Myrtle Beach, South Carolina, September 1993.

Pleuroscopic/thoracoscopic surgical techniques. Southern Medical Association 17th Symposium on Lung Disease, Sea Island, Georgia, June 1993.

Lung transplantation: selection of patients and particular medical and surgical problems. Southern Medical Association 17th Symposium on Lung Disease, Sea Island, Georgia, June 1993.

Use of non-heartbeating cadaveric lungs in transplantation. Transplantation: Restoration of Hope. Daytona Beach, Florida, November 1992.

The effect of a free radical scavenger on cadaveric lung transplantation. Southern Thoracic Surgical Association, Wesley Chapel, Florida, November 1992.

Lung transplantation: donor issues. South-Eastern Organ Procurement Foundation Workshop, Miami, Florida, January 1992.

Lung transplant: breathing a little life into transplant programs. Carolina Virginia Critical Care Society Symposium, Myrtle Beach, South Carolina, April 1991.

A randomized controlled trial to determine the effectiveness of fascial infiltration of bupivicaine in preventing atelectasis following abdominal surgery. Clinical Research Society of Toronto, April 1988.

A randomized controlled trial to determine the effectiveness of fascial infiltration of bupivicaine in preventing atelectasis following abdominal surgery. Central Surgical Association, Columbus, Ohio, March 1988.

Inhibition of PMN NADPH oxidase by Captopril. Clinical Research Society of Toronto, April 1986.

Inhibition of complement mediated hypoxemia by Captopril in sheep. Clinical Research Society of Toronto, March 1984.

Contribution of formed elements to thromboxane generation when activated complement is infused in sheep. Clinical Research Society of Toronto, March 1984.

Effect of granulocyte depletion on infusion of activated complement in sheep. Clinical Research Society of Toronto, March 1984.

Grand Rounds and Division Conferences at UNC

Ethical considerations in lung recovery for transplant after sudden death. Research Ethics Grand Rounds, North Carolina Translational & Clinical Sciences Institute (TraCS), Chapel Hill, NC, Sept. 19, 2013.

Ex-vivo lung perfusion: Current status and future directions. Transplant Education Conference, UNC Division of Abdominal Transplant Surgery, Sept. 11, 2013.

Impact of the Lung Allocation System on Lung Transplant in the U.S. Transplant Education Conference, UNC Division of Abdominal Transplant Surgery, Feb. 27, 2013.

Development of the New Lung Allocation System For Transplant And Its Impact. UNC Department of Surgery Research Rounds, Chapel Hill, NC, Oct 20, 2011.

Ex-vivo organ perfusion: The future of organ transplantation? Surgery Grand Rounds, UNC Department of Surgery, Chapel Hill, NC. April 6, 2011.

Ex-vivo lung perfusion: Opportunities for transplant and understanding cystic fibrosis. UNC Cystic Fibrosis/Pulmonary Research and Treatment Center Epithelial Biology Seminar. Chapel Hill, NC. Oct. 15, 2010.

The future of lung transplantation: Ex-vivo lung perfusion. UNC Department of Surgery Research Conference. Chapel Hill, NC. Oct. 14, 2010.

Ischemia-reperfusion injury : An innate biologic mistake? Grand Rounds, UNC Department of Surgery, Chapel Hill, NC, August 5, 2009.

CTSA and TraCS : What does it mean for surgeons? UNC Department of Surgery Research Conference, Chapel Hill, NC, April 14, 2009.

Hemoptysis. UNC Division of Cardiothoracic Surgery. UNC School of Medicine, Chapel Hill, NC, March 20, 2009.

Tricks of the trade: Lung transplantation. Cardiothoracic Surgery Curriculum Seminar series. UNC Division of Cardiothoracic Surgery, Chapel Hill, N.C., Sept. 4, 2008.

The new lung allocation system – three years later and the future of lung transplantation. Grand Rounds, UNC Department of Surgery, Chapel Hill, N.C., August 20, 2008.

Lung transplantation – past, present, future. UNC Division of Cardiothoracic Surgery, Chapel Hill, N.C. March 29, 2008.

What's New in Lung Ischemia-Reperfusion Injury? And Who Cares Anyway? UNC Department of Surgery Grand Rounds, Chapel Hill, NC. Sept. 6, 2006.

Imaging and evaluation of lungs for transplantation suitability. Department of Radiology, UNC School of Medicine, Chapel Hill, NC, Nov. 2005.

Winds of change in organ allocation: The new UNOS lung allocation system. Surgery Grand Rounds, UNC School of Medicine, Chapel Hill, NC, March 9, 2005.

The new lung transplant allocation algorithm. Division of Pulmonary Diseases and Critical Care Medicine, UNC School of Medicine, March 2, 2005.

Is There a Better Way to Distribute Thoracic organs for Transplant? Ethical and Logistic Issues for Heart and Lung Transplant. UNC Surgery Grand Rounds. December 2001.

Operative Techniques in Lung Cancer Therapy. Bristol-Meyers-Squibb preceptorship. UNC Chapel Hill, October 2001.

Perspectives in lung transplantation. Lung Transplant Multidisciplinary Workshop, Chapel Hill, January 1991.

Grand Rounds, Division Conferences Outside UNC

Ex-vivo Lung Perfusion and its Potential. Cardiothoracic Surgery Grand Rounds, Washington University, St. Louis, MO, September 29, 2010.

The Future of Lung Transplantation: Ex-vivo Lung Perfusion. Invited Lecture, University of Colorado Cardiothoracic Surgery Research Rounds, Denver, CO, August 26, 2010.

Ex-vivo Lung Perfusion: The Future of Lung Transplantation. Invited Lecture, University of Texas San Antonio Cardiothoracic Surgery Journal Club, July 7, 2010.

The Future of Lung Transplantation: Lungs Retrieved from the Morgue. Invited Lecture, Columbia-Presbyterian Medical Center Division of Cardiothoracic Surgery Rounds. December 18, 2008.

The Future of Lung Transplantation: Lungs Retrieved from the Morgue. Invited Lecture, Bellevue Hospital Emergency Department, New York University. December 17, 2008.

New Lung Allocation Policy for the USA …. the Inside Story. Invited Speaker. Mayo Clinic Jacksonville Transplant Rounds, Jacksonville FL. November 5, 2007.

Is There Life After Death? Recycling Lungs from Human Cadavers for Transplant. Invited Speaker, Department of Surgery Grand Rounds, the Methodist Hospital, Houston TX, May 31, 2007.

Is There a Solution to the Lung Donor Shortage? Invited Speaker, Department of Cardiothoracic Surgery conference, University of Texas-Southwestern, Dallas TX, May 16, 2007.

Is There Life After Death? Recycling Lungs from Human Cadavers for Transplant. Invited Speaker, Department of Cardiothoracic Surgery conference, Stanford University, Palo Alto CA, April 30, 2007.

Is There Life After Death? Recycling Lungs from Human Cadavers for Transplant. Invited Surgery Grand Rounds, University of Texas Medical Branch, Galveston TX, April 11, 2007.

Lung transplantation using lungs from non-heart-beating donors. Invited Speaker, Transplant Retreat, Cleveland Clinic Lung Transplantation Program, Cleveland, OH, Dec. 7, 2006.

Lung Transplantation: Is There a Solution to the Lung Donor Shortage? Invited Presentation, Newark Beth Israel Hospital, Newark NJ, Oct. 5, 2006.

Is there life after death? Using lungs from non-heart beating donors for transplant. ER Resident Conference, Baptist Hospital, Winston-Salem, NC, June 2, 2005.

Is there life after death? Using lungs from non-heart beating donors for transplant. Surgery Grand Rounds, University of Indiana, Indianapolis, IN, December 8, 2004.

Is there life after death? Using lungs from non-heart beating donors for transplant. Surgery Grand Rounds, Vanderbilt University Medical Center, September 10, 2004.

Is there life after death? Using lungs from non-heart beating donors for transplant. Surgery Grand Rounds, Montefiore Medical Center, Bronx, New York, May 2004.

Using gene arrays to understand lung ischemia-reperfusion injury. Respiratory Research Rounds, Johns Hopkins University, Baltimore, Maryland, February 2004.

The non-heart beating donor: A solution to the lung donor shortage? Massachusetts General Hospital Thoracic Surgery Rounds, Boston Massachusetts, July 2002.

The non-heart beating donor: A solution to the lung donor shortage? Yale University Cardiothoracic Surgery Rounds, New Haven, Connecticut, June 2002.

Management of the Lung Transplant Patient. Baptist Hospital, Memphis, Tennessee, April 2002.

Lung Transplant Patient Selection. Baptist Hospital, Memphis, Tennessee, April 2002.

Lung transplantation for cystic fibrosis. Klacsman Lecture, Mayo Clinic, Jacksonville, Florida, May 2000.

Optimizing results in lung transplantation for cystic fibrosis. Divisions of Cardiothoracic Surgery and Pulmonary Medicine, University of Washington, Seattle, Washington, October 1999.

Lung transplantation with non-heart-beating donors. Divisions of Cardiothoracic Surgery and Pulmonary Medicine, University of Washington, Seattle, Washington, October 1999.

Lung transplantation for cystic fibrosis. Mayo Clinic, Jacksonville, Florida, June 1999.

Surgical options for management of end-stage lung disease. Wilford Hall Medical Center, San Antonio, Texas, September 1997.

When does the lung die? Seminar, Department of Physiology, University of South Alabama, Mobile, Alabama, October 1995.

Cadaver lung donors. Toronto Hospital, Toronto, Ontario, Canada, October 1995.

When does the lung die? Rush Heart Institute, Chicago, Illinois, May 1994.

Lung transplantation in cystic fibrosis: state of the art in 1994. Kit Taylor Memorial Lecture, University of Rochester Medical Center, Rochester, New York, April 1994.

When is the lung dead? Tulane University Department of Surgery, New Orleans, Louisiana, February 1994.

Lung transplantation in cystic fibrosis. Veterans Affairs Medical Center, New Orleans, Louisiana, February 1994.

Is there a solution to the lung donor shortage? Thoracic Surgery Grand Rounds, Toronto General Hospital, Toronto, Ontario, Canada, July 1993.

Lung transplantation. Multidisciplinary Clinical Disposition Conference, Rex Hospital, Raleigh, North Carolina, August 1992.

Lung transplantation in 1992: what are the limits? Mayo Clinic, Rochester, Minnesota, March 1992.

When does the lung die (and who wants to know)? Mayo Clinic, Rochester, Minnesota, March 1992.

Lung transplants: experience with single lung, double lung and heart/lung transplants. Cleveland Memorial Hospital, Shelby, North Carolina, January 1992.

The current status of isolated lung transplantation. Midwest Heart Institute, Milwaukee, Wisconsin, October 1991.

Lung transplantation 1991: state of the art. Grand Rounds, Jewish Hospital of Long Island, New York, June 1991.

Update on lung transplantation. New Hanover Hospital, Wilmington, North Carolina, September 1990.

Lung transplantation—1990. Grand Rounds, East Carolina University, Greenville, North Carolina, February 1990.

Early postoperative care of lung transplant patients. Lung Transplant Seminar, Washington University, St. Louis, Missouri, November 1989.

Continuing Education Lectures at UNC

Overview of surgical options: transplant, volume reduction, and thromboendarterectomy. Continuing Education Conference: "What's New in Thoracic Surgery?" Chapel Hill, North Carolina, May 1997.

Future of lung transplantation. Continuing Education Conference: "What's New in Thoracic Surgery?" Chapel Hill, North Carolina, May 1997.

Therapy for Stage I and II non-small cell lung cancer. Continuing Education Conference: "What's New in Thoracic Surgery?" Chapel Hill, North Carolina, May 1997.

Airway surgery: techniques for lung preservation. Continuing Education Conference: "What's New in Thoracic Surgery?" Chapel Hill, North Carolina, May 1997.

Management of pneumothorax. Continuing Education Conference: "What's New in Thoracic Surgery?" Chapel Hill, North Carolina, May 1997.

Video-assisted thoracic surgery (VATS): current role and future prospects. Nathan Womack Surgical Society, Chapel Hill, North Carolina, January 1993.

A strategy to increase the pulmonary donor pool: the use of cadaver lungs for transplantation. Nathan A. Womack Surgical Society, Chapel Hill, North Carolina, January 1991.

Lung transplantation: 1990. Internal Medicine 1990, Chapel Hill, North Carolina, March 1990.

Lung transplant. Fourth Annual Cardiopulmonary Technology Update. Chapel Hill, North Carolina, March 1990.

Continuing Education Lectures Outside UNC

Ex-vivo evaluation of human lungs for transplant suitability. Cardiothoracic Transplantation 2005: An international update. University of Colorado (CME), Vail, CO, March 14, 2005.

Lung transplantation for cystic fibrosis – an update on *Burkholderia cepacia*. Cardiothoracic Transplantation 2003: An international update. University of Colorado (CME), Vail, Colorado, February 2003.

A model for allocation of donor lungs. Cardiothoracic Transplantation 2003: An international update. University of Colorado (CME),Vail, Colorado, February 2003.

The non-beating heart donor – experimental results. Cardiothoracic Transplantation 2003: An international update. University of Colorado (CME), Vail, Colorado, February 2003.

Surgery for COPD: Bullectomy, LVRS, and Lung Transplant. North Carolina Mountain AHEC Lecture, March 2002.

Cystic Fibrosis: Multi-resistant Organisms. Cardiothoracic Transplantation 2001: An International Update, Vail CO, Feb. 2001

Update on UNOS Heart and Lung Organ Allocation System. Cardiothoracic Transplantation 2001: An International Update, Vail CO, Feb. 2001

Ethical Dilemmas in Thoracic Transplantation. Cardiothoracic Transplantation 2001: An International Update, Vail CO, Feb. 2001

Advances in thoracic transplantation. Postgraduate course, Society of Thoracic Surgeons, Fort Lauderdale, Florida, January 2000.

Lung transplantation. Issues in Transplantation & Organ Procurement 1999. Nashville, Tennessee, April 1999.

COPD: to transplant or not? Thoracic Transplantation 1999: Into the Next Millennium (Conference), Vail, Colorado, February 1999.

Cystic fibrosis: infectious issues. Thoracic Transplantation 1999: Into the Next Millennium (Conference), Vail, Colorado, February 1999.

Lung donor selection. Thoracic Transplantation 1999: Into the Next Millennium (Conference), Vail, Colorado, February 1999.

Lung transplantation for cystic fibrosis. Postgraduate course, American Association for Thoracic Surgery, New York, NY, April 1994.

Lung transplantation: current status in cystic fibrosis. Hahnemann University Seminar on Advances in Pulmonary Medicine: Cystic Fibrosis and Related Pulmonary Disorders, Philadelphia, Pennsylvania, October 1993.

RESEARCH

ACTIVE:

1UM1HL113115-01 (Egan, PI) 9/1/2013-6/30/2016 2.4 cal months (Yr 1); 3.6 cal mos (Yrs 2, 3)
NIH/NHLBI $632,242 (Year 1); $3,166,304 (total direct costs)
More and better lungs: Ex-vivo perfusion of lungs from non-heart-beating donors
Goal: Show that lungs may be suitable for transplant after retrieval from people who die suddenly outside of the hospital or in an ER. Lungs are removed after death and assessed by ex-vivo perfusion.

3-UL1-TR000083-05S1 (Runge) 5/19/2008-4/30/2014 5.88 cal months
National Institutes of Health $7,314,857
Institutional Clinical and Translational Science Award
Dr. Egan serves as research navigator for NC TraCS. Position is renewable annually, funding will be decreased if Dr. Egan obtains new funding. (Dates for Dr. Egan's appointment: 3/1/09 to 4/30/14)

1R43HL115843-01 (Salzman; Egan, PI for UNC subaward) 12/28/2012-08/31/2013 0.6 cal months
NIH / Radikal Therapeutics (SBIR to Radikal; UNC has subaward) $70,654
A redox-active PARP inhibitor for lung transplantation
Goals: Establish superiority of bifunctional PARP-1 inhibitor, R-503, relative to its component domains in a rat model of warm-ischemic lung IRI; establish efficacy of R-503 in a syngeneic rat model of orthotopic LTX.

1R43HL117386-01 (Jagtap; Egan, PI for UNC subaward) 09/01/2013-8/31/2014 0.6 cal months
NIH / Radikal Therapeutics (SBIR to Radikal; UNC would have subaward) $70,568
Hybrid Katp channel opener and redox catalyst for lung transplantation
Radikal is developing a novel cytoprotective agent for prevention of ischemia-reperfusion injury (IRI) after lung transplant. Goals: Establish superiority of R-801 relative to its component functional domains in a rat model of warm-ischemic lung IRI, and establish efficacy of R-801 in a syngeneic rat model of orthotopic lung transplant.

R41HL103002-01 (Genova; Egan, co-investigator) 9/3/2010-5/31/2014 0.6 cal months
National Institutes of Health/X-In8 Biologicals Corp. (UNC is subcontractor to X-In8) $0 NCE
The effect of TLR4 inhibition on lung transplant ischemia-reperfusion injury
Goal: Determine and demonstrate if CRX-526 (a TLR4 inhibitor) can ameliorate lung ischemia-reperfusion injury during transplant. UNC (Egan, co-inv) is subcontractor to X-In8 on this grant.
Phase 1 STTR (Includes three no-cost extensions)

EGAN12P0 (Egan) 01/01/2013-12/31/2013
0.6 cal months; no support**
Cystic Fibrosis Foundation $100,000
Is there NO solution to IRI? Nitric oxide to improve and expand lung transplant
This project will test the hypothesis that administering nitric oxide (NO) to lungs will substantially reduce ischemia-reperfusion injury (IRI) and improve lung function after lung transplant.
**Dr. Egan is listed at 0.6 cal months effort, but receives no salary support

5-T32-GM008450-18 (Cairns, B, PI) 7/1/1992-6/30/2014 No salary support
NIH/National Institute of General Medicine Science) $115,521
Trauma Research Fellowship

PENDING:

(Egan, Macdonald, PIs) 11/1/2013-10/31/2015 0.6 cal months
Cystic Fibrosis Foundation (NIH Unfunded Bridge Grant) $115,521

Metabolomics to increase and improve lungs for transplant.
Goal: This project will use metabolomics technology to help determine if lungs retrieved after death are suitable for transplant, and investigate ways to treat lungs to improve the chance that they might be suitable for transplant.

COMPLETED:

1RC2HL101641-02 (Egan, PI) 9/30/2009 - 12/31/2012
National Institutes of Health/NHLBI $1,466,880 (total direct costs)
Ex-vivo perfusion and ventilation of lungs to assess transplant suitability
Goal: Perfect a technique to perfuse and ventilate human lungs outside the body (ex-vivo) to determine if they are suitable for transplant, and demonstrate safety of transplanting human lungs after ex-vivo perfusion in a pilot clinical study. Plan a multi-center clinical trial to use this ex-vivo lung perfusion/ventilation system to evaluate human lungs retrieved after death from non-heart- beating donors. (Included one-year and four-month no-cost extensions)

National Institutes of Health/NHLBI (Phase 1 STTR) (R41 HL095293-01A2) **NF-κB Inhibition of Lung Ischemia Reperfusion Injury**. Principal Investigator: Patrick Flood (TheraLogics); Thomas Egan, Co-Investigator. (UNC is subcontractor to TheraLogics on this grant.) 8/1/2009-7/31/2011. (One-year no-cost extension) $97,171 direct costs.

NC Translational and Clinical Sciences Institute Clinical and Translational Science Award, NIH/National Center for Research Resources (grant no.UL1RR025747 to UNC) 50KR20913 (Egan, PI) **Innate Immune Inhibition in a New Rat Lung Transplant Survival Model Using Non-Heart-Beating Donors** 11/01/2009 – 01/31/2011 $49,982 direct costs.

NC Translational and Clinical Sciences Institute Clinical and Translational Science Award, NIH/National Center for Research Resources (grant no.UL1RR025747 to UNC) **From the Community to the OR: EMS Workers' Knowledge of and Attitudes toward Heart-Beating and Non-Heart-Beating Organ and Tissue Donation**. Principal Investigator: Eileen Burker; Thomas Egan, co-investigator. 7/1/2009-6/30/2010. $10,000 direct costs.

Cystic Fibrosis Foundation. **Ischemic Injury in Cadaver Donors for Lung Transplant**. Principal Investigator: Thomas M. Egan July 1, 2006- June 30, 2009. $200,000 direct costs.

Department of Health and Human Services, Health Resources and Services Administration (HRSA), Division of Transplantation. ***Ex-vivo* Evaluation of Human Lungs from Non-Heart Beating Donors for Transplant**. Co-principal investigators: Thomas M. Egan and Burton J. Mattice (Carolina Donor Services). August 1, 2004 – July 31, 2007. ($740,387 direct costs for UNC; total costs for UNC $879,932)

Cystic Fibrosis Foundation. **Ex-vivo Resuscitation and Assessment of Human Lungs for Transplant**. Principal investigator: Thomas M. Egan. Feb. 1, 2003 – Jan. 31, 2007. $149,557.58 direct costs.

Cystic Fibrosis Foundation. **Gene Expression in Lung Ischemia-Reperfusion Injury**. Principal Investigator: Thomas M. Egan. July 1, 2002-Jan. 31, 2006. $200,000 direct costs.

National Institutes of Health. 3 RO1 HL63159-02S1. **Ischemic Injury in Cadaver Donors for Lung Transplant - Administrative Supplement for Microarray Applications and Analyses**. Principal Investigator: Thomas M. Egan. Sept. 20, 2002 – July 31, 2005. (One-year no-cost extension.) $51,542 direct costs (total costs $74,994).

National Institutes of Health RO-1 HL63159-01A2. **Ischemic Injury in Cadaver Donors for Lung Transplant.** Principal Investigator: Thomas M. Egan. Sept. 20, 2001 – July 31, 2005. (One-year no-cost extension.) $625,000 direct costs (total costs $905,098).

UNC Junior Faculty Development Award. **Predictors of Quality of Life Post-Lung Transplant.** PI: E. J. Burker (Division of Rehabilitation Counseling); Co-Investigator: Thomas M. Egan. Jan. 1-Dec. 31, 1993. $3,000.

American College of Surgeons. **1992 Armand Hammer Traveling Surgical Scholarship**.1992-93. $25,000.

Cystic Fibrosis Foundation. **Increasing the Donor Pool for Human Lung Transplantation**. April 1, 1991 - September 30, 1993. $63,394.

American Lung Association. **Assessment of Lung Function and Airway Healing Following Single Lung Transplantation Using Oxygen Free Radical Scavengers for Prolonged Preservation**. July 1, 1990 - June 30, 1991. $9,000.

RESEARCH CONTRACTS

Ikaria Corp. **Assessing a novel agent using rat lung transplant and cell culture models of lung IRI**. This project will assess the efficacy of a novel compound to reduce lung IRI in a rat lung transplant model and reduce markers of inflammation in human pulmonary microvascular endothelial cells subjected to simulated IRI. May 1, 2010-Sept. 30, 2010. $80,000 direct costs.

PATENTS

Methods of regulating Actin Cytoskeletal Rearrangement and Intercellular Gap Formation. PCT International Application No. PCT/US2009/040098 April 8, 2009 Inventor: Thomas Egan.

Methods of treating edema related to ischemia-reperfusion US Provisional Patent 61/168,089 April 9, 2009 Inventor: Thomas Egan.

Compositions and methods for the treatment and prevention of ischemia-reperfusion injury US Provisional Patent 61/168,135 April 9, 2009 Inventor: Thomas Egan.

PROFESSIONAL SERVICE

NIH panels:

Co-Chair, NIH Study Section ZAI1-JTS-I-J1: Clinical Trials in Organ Transplantation in Children (U01) – CTOT-C, Sept. 10-11, 2012.
Member, NIH Study Section: Surgical Sciences and Bioengineering, SBIB-J. June 29, 2012.
Member, NIH Small Business Respiratory Science Panel ZRG1 CVRS-H 11 B (mail-in reviewer), Nov. 17, 2011.
Member, NIH Special Emphasis Panel for NHLBI RFA, Consortium of Lung Repair and Regeneration: Building the Foundation (U01), Aug. 5, 2011.
Member, NIH Study Section, Phase II Clinical Trials of Novel Therapies for Lung Diseases, Nov. 5, 2009
Member, NIH Study Section Program Project Proposal, Oct. 28, 2008
Member, NIH study section: Special Emphasis Panel/Scientific Review Group 2008/01 ZRG1 IMM-E "Immune Mechanisms" Oct. 24-25, 2007.
Member, NIH study section: NHLBI Program Project Workgroup. January 2007.
Member, NIH study section: Clinical Outcomes of Live Organ Donors, Dec 1-2, 2005.
Ad hoc reviewer, NHLBI Clinical Trials Review Committee, February 28, 2005.
Co-chair, NHLBI Workshop on Lung Transplant Research Issues, June 2004.
Ad hoc reviewer, NIH Program Project Special Review committee member, February 2004.
Ad hoc reviewer, NIH evaluation of centers for the NETT trial, 1998

Other service to discipline

Invited Reviewer, grant proposals for Alberta Innovates – Health Solutions Collaborative Research and Innovation Opportunities. November 2012.
Member, Expert Panel for Blue Distinction Centers for Transplants, Blue Cross and Blue Shield Association, Chicago, IL. (panel assists BCBSA in redesigning selection criteria for Blue Distinction Centers for Transplants, medical facilities that have demonstrated expertise in delivering high quality health care, under objective selection criteria). Sept. 10, 2010 to present
Consultant, Best Doctors of America, 2010.
Consultant, Medical Case Management Group, 2010.
Invited Reviewer, Lytmos Group for the James and Esther King Biomedical Research Program, State of Florida, March 2010.
Member, Advisory Board, Ikaria Pharmaceuticals. Dec.11-12, 2009, Vienna, Austria.
Invited Reviewer, Lytmos Group for the James and Esther King Biomedical Research Program, State of Florida, March 2009.
Reviewed abstracts for annual meeting of International Society for Heart and Lung Transplantation (ISHLT), October 2007, October 2008, February 2008, October 2009.
Invited reviewer, research proposals, French Cystic Fibrosis Foundation (Vaincre la Mucoviscidose) August 2008.
Invited chair of ISHLT session, Ex-vivo Assessment and Resuscitation of Donor Lungs, April 2008.
Member, Program Committee for 2007 ISHLT Annual Meeting and Scientific Sessions, International Society of Heart and Lung Transplantation, 2006-2007.
Member, Industry and Insurance Coalition Subcommittee of Professional Affairs Committee, Society of Thoracic Surgeons, 2000-2002.
Member, Medico-Legal Affairs Committee, Society of Thoracic Surgeons, 2000-2001

Reviewer of proposals submitted to the awards competition, International Society for Heart & Lung Transplantation, 1999, 2002, 2004, 2005, 2007, 2009.
Member, UNC Heart Center Task Force, 1999-2000.
Reviewer, Thoracic Surgery Research and Education Foundation research grants, 1999
Member, Thoracic Organ Committee, UNOS, 1998-2005.
Chairman, Lung Allocation Subcommittee of Thoracic Organ Committee, UNOS, 1999-2005.
Member, Standards and Ethics Committee, The Society of Thoracic Surgeons, 1997-2000

Member, Continuing Medical Education Committee, The Society of Thoracic Surgeons, 1996-97.
Invited Oral Examiner, The American Board of Thoracic Surgery, 1996.
Member, Program Committee, The Society of Thoracic Surgeons, 1995-97; Co-chairman, 1997.
Founding Co-Chair and Member, Council on Pulmonary Transplantation, International Society for Heart and Lung Transplantation, 1993-96.

Within UNC-Chapel Hill
Associate Program Director, UNC Cardiothoracic Residency Training Program, 1995-2011.
UNC Cardiothoracic Surgery Resident Interviews, annually
General Surgery Resident Interviews, UNC, annually, 2008-2010
Member, UNC Faculty Council, July 2008-present
CME coordinator, UNC Cardiothoracic Surgery Divisional Conferences: Weekly divisional conference, monthly "Tricks of the Trade," M&M conference. 2008-present
Coordinator, UNC Cardiothoracic Surgery Division Curriculum Seminar Series, 1999-2007
Director, Lung Transplant Program, UNC Hospitals, 1989-2004
Member, UNC Heart Center Task Force, 1999-2000

Other
Member, Blue Cross/Blue Shield of North Carolina Pulmonary Disease Consultant Advisory Panel, 2001-present.

Invited Reviewer
American Journal of Physiology: Lung Cell and Molecular Physiology
American Journal of Transplantation
Annals of Thoracic Surgery
Chest
Experimental Lung Research
Journal of the American Medical Association (JAMA)
Journal of Critical Illness
Journal of Thoracic and Cardiovascular Surgery
Journal of Thoracic Oncology
Nature Communications
New England Journal of Medicine (NEJM)
Pediatric Transplantation
Respiratory Medicine
The Scandinavian Journal of Clinical & Laboratory Investigation
Transplantation

Transplant International

Editorial Board

The Journal of Heart and Lung Transplantation

Society Memberships

American Association for Thoracic Surgery
American College of Chest Physicians (Fellow)
American College of Surgeons (Fellow)
American Physiological Society
American Thoracic Society
Association for Academic Surgery
European Association for Cardiothoracic Surgery
International Society for Heart and Lung Transplantation
Nathan A. Womack Surgical Society
Society of Thoracic Surgeons
Society of University Surgeons
Southern Thoracic Surgical Association